Application No.: 10/534.042 Docket No.: 0171-1205PUS1

Reply to Office Action of August 21, 2009

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A charge-transporting varnish which comprises a charge-

transporting substance composed of a charge-transporting oligomer having a number-average

molecular weight of 200 to 2,000, or a charge-transporting organic material composed of said

charge-transporting substance and an electron accepting dopant substance or hole accepting

dopant substance, [[and]] a <u>first</u> solvent containing at least one species of high-viscosity solvent

having a viscosity of 50 to 200 mPa·s at 20°C, and one or more second solvents selected from

the group consisting of N,N'-dimethylacetamide and N,N'-dimethylimidazolidinone, said charge-

transporting substance or charge-transporting organic material being dissolved or uniformly

dispersed in said solvent solvents.

2. (Currently Amended) A charge-transporting varnish as defined in claim 1, wherein

said charge-transporting-substance is a charge-transporting monomer having conjugated units or

a-charge-transporting oligomer having conjugated units, said oligomer having a number-average

molecular weight of 200 to 5000, said has conjugated units being homogeneous and continuously

arranged or being heterogeneous and randomly arranged.

3. (Original) A charge-transporting varnish as defined in claim 2, wherein said

conjugated unit is at least one species selected from substituted or unsubstituted and di- to tetra-

valent aniline, thiophene, dithiin, furan, pyrrole, ethynylene, vinylene, phenylene, naphthalene,

anthracene, imidazole, oxazole, oxadiazole, quinoline, quinoxaline, silole, silicon, pyridine,

pyrimidine, pyrazine, phenylenevinylene, fluorene, carbazole, triarylamine, metal-containing or

metal-free phthalocyanine, and metal-containing or metal-free porphyrin.

4. (Previously Presented) A charge-transporting varnish as defined in any of claims 1 to

3, wherein said charge-transporting substance is an oligoaniline derivative represented by the

formula (1) or a quinonedimine derivative which is an oxidized form of an oligoaniline

derivative represented by the formula (1):

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$$R^{1} = \begin{bmatrix} A - NH \end{bmatrix}_{n} \begin{bmatrix} B - N \end{bmatrix}_{m}^{R^{2}}$$
 (1)

where R¹, R², and R³ independently denote hydrogen, hydroxyl group, halogen group, amino group, silanol group, thiol group, carboxyl group, sulfonic acid group, phosphoric acid group, phosphate ester group, ester group, thioester group, amide group, nitro group, monovalent hydrocarbon group, organoxy group, organoamino group, organosilyl group, organothio group, acyl group, or sulfone group, and A and B independently denote a divalent group represented by the formula (2) or (3) below:

$$R^{8} \longrightarrow R^{10}$$

$$R^{11}$$

$$(3)$$

where R^4 to R^{11} independently denote hydrogen, hydroxyl group, halogen group, amino group, silanol group, thiol group, carboxyl group, sulfonic acid group, phosphoric acid group, phosphate ester group, ester group, thioester group, amide group, nitro group, monovalent hydrocarbon group, organoxy group, organoamino group, organosilyl group, organothio group, acyl group, or sulfone group, and m and n independently denote an integer of 1 and above, such that m+n < 20.

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5. (Currently Amended) A charge-transporting varnish as defined in claim 1 or 2, wherein said charge-transporting substance is a 1,4-dithiin derivative represented by the formula (4):

where R¹², R¹³, R¹⁴, and R¹⁵ independently denote hydrogen, hydroxyl group, halogen group, amino group, silanol group, thiol group, carboxyl group, sulfonic acid group, phosphoric acid group, phosphate ester group, ester group, thioester group, amide group, nitro group, monovalent hydrocarbon group, organoxy group, organoamino group, organosilyl group, organothio group, acyl group, or sulfone group; X and Y each denote at least one species selected from substituted or unsubstituted, di- to tetra-valent aniline, thiophene, furan, pyrrole, ethynylene, vinylene, phenylene, naphthalene, anthracene, imidazole, oxazole, oxadiazole, quinoline, quinoxaline, silole, silicon, pyridine, pyrimidine, pyrazine, phenylenevinylene, fluorene, carbazole, triarylamine, metal-containing or metal-free phthalocyanine, and metal-containing or metal-free porphyrin; the dithiin ring may be dithiinoxide ring or dithiindioxide ring; and p and r independently denote [[0 or]] an integer of [[1]] 2 and above, and q denotes an integer of 1 and above, such that p+q+r < 20.

6. (Previously Presented) A charge-transporting varnish as defined in claim 1, wherein said electron accepting dopant substance is a sulfonic acid derivative represented by the formula (5):

$$R^{17}$$
 SO_3H (5)

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where D denotes a benzene ring, naphthalene ring, anthracene ring, phenanthrene ring, or

heterocyclic ring; and R¹⁶ and R¹⁷ independently denote a carboxyl group or hydroxyl group.

7. (Previously Presented) A method for preparing a charge transporting thin film

comprising applying the charge transporting varnish defined in claim 1 to a substrate and

evaporating the solvent.

8. (Previously Presented) A method for preparing an organic electroluminescent

element comprising applying the charge transporting varnish defined in claim 1 to a substrate,

and evaporating the solvent.

9. (Previously Presented) The method for preparing an organic electroluminescent

element as defined in claim 8, wherein said charge transporting varnish forms a hole injection

layer or a hole transporting layer.

10. (Previously Presented) A solar cell which is made with the charge transporting

varnish defined in claim 1.

11. (Previously Presented) A charge-transporting varnish as defined in claim 1,

wherein said charge-transporting substance and an electron accepting dopant substance or hole

accepting dopant substance are amorphous.

12-14. (Canceled)

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GMM/GMD/KC/bsh